

Appendix B:

Tabular Summary of Sound Level Data from Range Studies and Experiments

Table B-1. Summary of sound levels, in dBA, measured during the Sporting Clay Range Study.

Shooter Location	Location R1								Location R2								Location R3							
	June 3, 2008				June 10, 2008				June 3, 2008				June 10, 2008				June 3, 2008				June 10, 2008			
	Gun Position*				Gun Position*				Gun Position*				Gun Position*				Gun Position*				Gun Position*			
	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR
A1	53	51	49	51	53	53	47	49	---	---	---	---	52	51	56	54	---	---	---	---	---	---	---	---
A1	53	51	47	47					45	44	47	46					---	---	---	---				
A1	60	58	49	52					45	46	47	46					---	---	---	---				
A2	49	50	53	---	52	50	52	54	---	---	---	---	---	48	58	61	---	---	---	---	---	---	---	---
A3	48	48	54	55	52	55	55	53	---	---	44	45	46	49	52	53	---	---	---	---	---	---	---	---
B	51	50	47	48	---	---	50	---	---	---	45	---	54	56	64	64	---	---	---	---	---	---	---	---
C (inside)	48	46	55	57	---	---	51	53	---	---	---	---	50	51	56	49	---	---	---	---	---	---	---	---
C (outside)	50	47	54	54					---	---	---	---					---	---	---	---				
D	49	49	53	50	---	---	55	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
E	---	---	46	47	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
F(inside)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
F (outside)	---	---	48	47					---	---	---	---					---	---	---	---				
G	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
H	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
I	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	50	---	46	---	---	---	---
K	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	61	58	---	---	---	---	---	---
L(inside)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	58	58	---	47	46	49	---	47
L (outside)	---	---	---	---					---	---	---	---					58	56	47	45				
M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	53	56	51	50	47	47	---	---
N	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	61	---	---	---	---	---	---
O	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	57	51	48	48	---	---	---	---
P (inside)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	55	53	52	51	50	53	53	53
P (outside)	---	---	---	---					---	---	---	---					53	53	53	52				
Q	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	55	55	---	50	52	47	45

Shooter Location	Location R1								Location R2								Location R3							
	June 3, 2008				June 10, 2008				June 3, 2008				June 10, 2008				June 3, 2008				June 10, 2008			
	Gun Position*				Gun Position*				Gun Position*				Gun Position*				Gun Position*				Gun Position*			
	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR	LL	HL	HR	LR
R	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	52	54	48	50	50	54	50	55
S (inside)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	49	49	51	50	57	52	58
S (outside)	---	---	---	---					---	---	---	---					52	54	55	54				
T	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	47	48	---	51	52	53
U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	49	---	---
V (inside)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
V (outside)	---	---	---	---					---	---	---	---					---	---	---	---				
W	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
X	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Y	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Z	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Gun position key: LL= level left, HL= high left, HR= high right, LR= level right.
“----” indicates that the gunshot was not audible and/or identifiable in the data
Empty cells denote conditions that were not tested on June 10, 2008
On June 3, 2008, measurements took place from approximately 10:41 am to 11:46 am
On June 10, 2008, measurements took place from approximately 11:19 am to 11:51 am

Table B-2. Summary of sound levels, in dBA, measured during the Trap and Skeet Range Study.

Location	Skeet												Trap (Test 1)						Trap (Test 2)						Ambient
	Position S1		Position S3		Position S4		Position S6		Position S7		Position S8		Position T1		Position T3		Position T5		Position T1		Position T3		Position T5		
	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	
R1	---	---	---	47	49	54	47	46	45	45	44	---	45	48	49	44	44	51	47	48	45	47	47	49	39-45
R2	---	---	---	---	---	---	---	---	---	---	---	---	---	45	46	45	---	---	45	49	43	44	47	47	38-48
R3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	33-43

Table B-3. Summary of sound levels, in dBA, measured during the Rifle and Pistol Range Study.

Location	Gun Type*	100 Yard Range (Test 1)						100 Yard Range (Test 2)						50 Yard Range						25 Yard Range								Ambient dBA
		Lane 4		Lane 11		Lane 17		Lane 4		Lane 11		Lane 17		Lane 21		Lane 26		Lane 30		Lane 31		Lane 35		Lane 40				
		1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd			
R1	.308-SA	52	51	53	50	50	50	55	57	53	54	52	50	62	57	56	53	49	47	48	49	51	49	48	47	42 to 49		
	.308-BA			49	51					50	49					56	51					---	---					
	.223-SA			---	50					53	52					51	50					---	---					
	12 Ga	---	---	48	48	50	49	49	46	48	50	49	47	51	50	52	51	53	52	54	52	50	51	55	50			
	40 Cal	50	49	---	---	---	---	48	47	48	48	---	---	48	46	48	50	48	46	---	46	---	---	---	---			
R2	.308-SA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	38-45		
	.308-BA			---	---					---	---					---	---					---	---					
	.223-SA			---	---					---	---					---	---					---	---					
	12 Ga	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
	40 Cal	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
R3	.308-SA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	35-48		
	.308-BA			----	----					----	----					----	----					----	----					
	.223-SA			----	----					----	----					----	----					----	----					
	12 Ga	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----			
	40 Cal	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----			

* Gun Type key: .308-SA = semi-automatic rifle, .308-BA = .308 bolt action rifle, .223-SA = semi-automatic rifle, 12 Ga= 12 gauge shotgun, 40 Cal= 40 caliber handgun.
“----” indicates that the gunshot was not audible and/or identifiable in the data